DELPHI SERIES

FEATURES

- High efficiency: 96.3% @ 12V/20A
- Size: 58.4mm x 22.8mm x 11.4mm (2.30”x0.90” x0.45”)
- Industry standard pin out
- Fully protected: Input UVLO, OVP, Output OCP and OTP
- Parallelable for higher output power
- 2250V isolation
- Basic insulation
- Monotonic startup
- No minimum load required
- ISO 9001, TL 9000, ISO 14001, QS9000, OHSAS18001 certified manufacturing facility
- UL/cUL 60950 (US & Canada) Recognized, and TUV (EN60950) Certified
- CE mark meets 73/23/EEC and 93/68/EEC directives

Delphi Series E48SB, Eighth Brick Bus Converter DC/DC Power Modules: 48V in, 240W out

The Delphi Series E48SB, Eighth Brick sized, 48V input, single output, open frame bus converters are the latest offering from a world leader in power systems technology and manufacturing -- Delta Electronics, Inc. This product features an input voltage range of 38V to 55V and provides up to 240 watts of power or up to 25A of output current in an industry standard footprint. This product represents the next generation of design technology that supports the intermediate bus architecture to power multiple downstream non-isolated point-of-load (POL) converters. With creative design technology and optimization of component placement, these converters possess outstanding electrical and thermal performance, as well as extremely high reliability under stressful operating conditions. All modules carry a full set of international safety approvals. An optional heatsink is available for extreme thermal requirements.

OPTIONS

- Positive On/Off logic
- Short pin lengths
- Heatsink available for extended operation
- OTP and OCP mode (auto restart or latch-up)

APPLICATIONS

- Datacom / Networking
- Wireless Networks
- Optical Network Equipment
- Server and Data Storage
- Industrial/Testing Equipment

Delta Electronics, Inc.

SPECIFICATIONS

GENERAL SPECIFICATIONS			OUTPUT SPECIFICATIONS		
Input Voltage		38V~55V	**Voltage Set Point**	Typical	Vin/n
Switching Frequency	Typical	200 KHz	**Total Output Range**	E48SB120	8.9V~13.75V
Isolation Voltage	In/Out	2250V		E48SB9R6	7.0V~11V
Isolation Resistance	Minimum	10M Ohms			
MTBF	Bellcore	2.01	**Load Regulation**	Typical	300mV
OTP	Typical	130°C	**Ripple & Noise**	Typical	100 mV
Size	(2.30"×0.90"×0.45")	58.4x22.8x11.4mm	**Load Limits**	Typical	120% of load

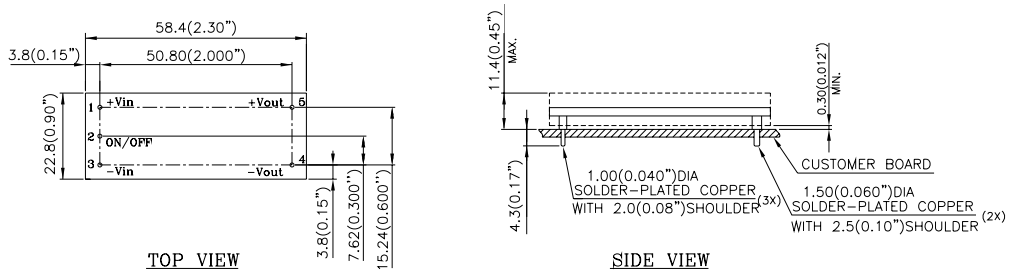
PART NUMBERING SYSTEM

E	48	S	B	120	20	N	R	F	A
Type of Product	**Input Voltage**	**Number of Outputs**	**Product Series**	**Output Voltage**	**Output Current**	**ON/OFF Logic**	**Pin Length**		**Option Code**
E - Eighth Brick	48 - 38V~55V	S - Single	Bus Converter	120 - 12V 9R6 - 9.6V	20 - 20A 25 - 25A	N - Negative (Default) P - Positive	R- 0.170" (Default) N- 0.145" K- 0.110" C- 0.180"	F- RoHS 6/6 (Lead Free)	A - OCP, OTP hiccup B - OCP, OTP latch-up

MODEL LIST

Model Name	INPUT		OUTPUT		Eff. @ 100% LOAD
E48SB12020NRFA	38V~55V	6.5A	12V	20A	96.3%
E48SB9R625NRFA	38V~55V	6.5A	9.6V	25A	96.5%

MECHANICAL DRAWING



NOTES:
DIMENSIONS ARE IN MILLIMETERS AND (INCHES)
TOLERANCES: X.Xmm±0.5mm(X.XX in.±0.02 in.)
X.XXmm±0.25mm(X.XXX in.±0.010 in.)

CONTACT: www.delta.com.tw/dcdc

USA:
Telephone:
East Coast: (888) 335 8201
West Coast: (888) 335 8208
Fax: (978) 656 3964
Email: DCDC@delta-corp.com

Europe:
Phone: +41 31 998 53 11
Fax: +41 31 998 53 53
Email: DCDC@delta-es.com

Asia & the rest of world:
Telephone: +886 3 4526107 ext 6220
Fax: +886 3 4513485
Email: DCDC@delta.com.tw

WARRANTY

Delta offers a two (2) year limited warranty. Complete warranty information is listed on our web site or is available upon request from Delta.

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